

Mr. Steve Trent Fluor Hanford Inc. 825 Jadwin Ave. Richland, WA 99352

Subject: Contract No. 630
Analytical Data Package

Dear Mr. Trent:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch#	0705L340
SDG#	H3521
SAF#	F06-036
Date Received	5/30/07
# Samples	5
Matrix	WATER
Volatiles	
Semivolatiles	
Pest/PCB	
DRO/GRO/KRO	
Herbicides	
GC Alcohol	
Metals	
Inorganics	X

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,

Lionville Laboratory Incorporated

Orlette S. Johnson Project Manager



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# Lionville Laboratory, Inc. INORGANIC ANALYTICAL DATA PACKAGE FOR TNU-HANFORD F06-036 #3521

DATE RECEIVED: 05/30/07 LVL LOT # :0705L340

	•	-						
CLIENT	ID /ANALYSIS	<b>LV</b> L	#	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
BINFTI								
	DRGANIC CARBON DRGANIC CARBON	<b>001</b>	REP	W W	07LTC009	<b>05/08/07</b> 05/08/07	06/04/07 06/04/07	06/04/0 <b>7</b> 06/04/07
	DRGANIC CARBON	001	MS	W	07LTC009	05/08/07	06/04/07	06/04/07
B1N <b>81</b> 8								
TOTAL	ORGANIC CARBON	002		W	07LTC009	0 <b>5/08/</b> 07	06/04/07	06/04/07
B1N819								
TOTAL (	ORGANIC CARBON	003		W	07LTC009	05/08/07	06/04/0 <b>7</b>	06/04/07
B1NDD7								
TOTAL (	DRGANIC CARBON	004		W	07LTC009	05/17/07	06/04/07	06/04/07
B1 <b>N8</b> 20								
TOTAL (	ORGANIC CARBON	005		W	07LTC009	05/1 <b>0</b> /07	06/04/07	06/04/07
LAB QC:								
	ORGANIC CARBON	MB1 MB1	BS	W W	07LTC009 07LTC009	N/A N/A	06/04/07 06/04/07	06/04/07 06/04/07





# **Analytical Report**

Client: TNU-HANFORD F06-036

W.O.#: 11343-606-001-9999-00 Date Received: 05-30-07

**LVL#:** 0705L340

#### INORGANIC NARRATIVE

1. This narrative covers the analysis of 5 water samples.

2. The samples were prepared and analyzed in accordance with the method checked on the attached glossary.

LvLI is NELAP accredited by the state of Pennsylvania and holds over 20 additional state accreditations. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvLI certifies that all test results meet the requirements of NELAC with any exception noted in the following statements.

- 3. Sample holding times as required by the method and/or contract were met.
- 4. The results presented in this report are derived from samples that did not meet LvLI's sample acceptance policy as noted on the Sample Receipt Checklist.
- 5. The method blank was within the method criteria.
- 6. The Laboratory Control Sample (LCS) was within the laboratory control limits.
- 7. The matrix spike recovery was within the 75-125% control limits.
- 8. The replicate analysis was within the 20% Relative Percent Difference (RPD) control limit.

9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels

Laboratory Manager

Lionville Laboratory Incorporated

njp∖i05-340

The results presented in this report relate to the analytical testing and conditions of the samples upon receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 15 pages.

6/13/01

# Lionville Laboratory Incorporated

# WET CHEMISTRY

# METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	EPA /600	SW846	OTHER
Acidity	305.1		
AlkalinityBicarbonateCarbonate	310.1		
BOD	405.1		5210B (b)
Ion Chromatography:			<del></del>
BromideChlorideFluoride	300,0	9056	
NitrateNitritePhosphate	300.0	9056	
Sulfate Formate Acetate Oxalate	300.0	9056	
Chloride	325.2	9251	
Chorine, Residual	330.5 (mod)		
Cyanide, Amenable to Chlorination	335.2	9010B	
Cyanide, Total	335.2	9010B	9014 ILMO4.0 (e)
Cyanide, Weak Acid Dissociable	<del></del>		412 (a) 4500CN-I (b)
COD	410.4(mod)	<del></del>	5220C (b)
Color	110.2		<del></del>
Corrosivity by Coupon	_	1110(mod)	
Chromium VI		7196A	3500Cr-D (b)
Fluoride	340.2		4500-FC
Hardness, Calcium	<del></del>		
Hardness, Total	— <sub>130.2</sub>		
Iodide	<del></del>		ASTM D19P202 (1)
Surfactant	425.1		<del></del>
Nitrate-Nitrite Nitrate Nitrite	353.2		
Ammonia	350.3		
Total, Kjeldahl Organic Nitrogen	351.3		
Total V Organic Inorganic Carbon	415.1	9060	
Oil & Grease	413.1	9070	
pH pH; paper	150.1	9040B	9041A
Petroleum Hydrocarbons, Total Recoverable	418.I		
Phenol	420.1 4	20.2 9065	9066
OrthoTotal Phosphate	365.2	<del></del>	4500-PB C
Salinity	<del></del>		210A (a) 2520 (b)
Settleable Solids	160.5		<del></del>
Sulfide	376.1	9030	B/9034 (acid soluble)
ReactiveCyanideSulfide	<del>_</del>	Section 7.3	(90149030B)
Silica	370.1	<del></del>	
Sulfite	377.1	•	
Sulfate	375.4	9038	
Specific Conductance	120.1	9050A	
Specific Gravity		<del></del> -	D5057-90 213E (a)
Synthetic Precipitation Leach	13	312	<del></del>
TotalDissolvedSuspendedSolids	16012	<del></del>	
Total Organic Halides	450.1	9020B	
Turbidity	180.1		
Volatile Solids:			
TotalDissolvedSuspended	160.4		
Other:		Method:	

# Lionville Laboratory Incorporated

# METHOD REFERENCES AND DATA QUALIFIERS

# **DATA QUALIFIERS**

- U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.
- \* = Indicates that the original sample result is greater than 4x the spike amount added.

# ABBREVIATIONS

MB = Method or Preparation Blank.

MS = Matrix Spike.

MSD = Matrix Spike Duplicate.

REP = Sample Replicate

LC = Laboratory Control Sample.

NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

# ANALYTICAL WET CHEMISTRY METHODS

- ASTM Standard Methods.
- USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
- 3. <u>Test Methods for Evaluating Solid Waste</u> (USEPA SW-846).
- a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).
- b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
- c. <u>Method of Soil Analysis</u>, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
- d. <u>Method of Soil Analysis</u>, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
- e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
- f. Code of Federal Regulations,

#### INORGANICS DATA SUMMARY REPORT 06/04/07

CLIENT: TMU-HANFORD F06-036 LVL LOT #: 0705L340

WORK ORDE.	K: TT343-000-00T-3333-	00				
					REPORTING	DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	LIMIT	FACTOR
*======		=======================================	========	S-865	4222 <del>222</del>	=======
-001	B1NFT1	Total Organic Carbon	0.50 և	MG/L	0,50	1.0
-002	BIN818	Total Organic Carbon	79.2	MG/L	25.0	50.0
-003	BIN819	Total Organic Carbon	61.3	MG/L	25.0	50.0
-004	B1MDD7	Total Organic Carbon	107	MG/L	25.0	50.0
-005	B1N820	Total Organic Carbon	121	MG/L	25,0	50. <b>0</b>

#### INORGANICS METHOD BLANK DATA SUMMARY PAGE 06/04/07

CLIENT: TNU-HANFORD F06-036 LVL LOT #: 0705L340

					REPORTING	DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	LIMIT	FACTOR
=====			#=====		<b>-</b>	=======
BLANK10	07LTC009-MB1	Total Organic Carbon	9.50 u	MG/L	0.50	1.0

#### INORGANICS ACCURACY REPORT 06/04/07

CLIENT: TNU-HANFORD F06-036 LVL LOT #: 0705L340

			SPIKED	INTITAL	SPIKED		DILUTION
SAMPLE	SITE ID	ANALYTE	SAMPLE	RESULT	TRUDOMA	*RECOV	FACTOR (SPK)
======	##2======			====###	=====	=======	E===FE==3
-001	BINFTI	Total Organic Carbon	5.5	0.43	5.0	102.2	1.0
BLANK10	07LTC009-MB1	Total Organic Carbon	4.8	0.50u	5.0	96.0	1.0

## INORGANICS PRECISION REPORT 06/04/07

CLIENT: TNU-HANFORD F06-D36 LVL LOT #: 0705L340

			INITIAL			DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	REPLICATE RE	PD	FACTOR (REP)
				=======================================	=====	22x=302k=52
-001REP	BLNFT1	Total Organic Carbon	0.5 <b>0</b> 1	0.50u	NC	1.0

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# Lionville Laboratory Incorporated SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU Hantors Projection SAFISOWRelease F: FOO-036	Date: 5-30.07		
LvL1 Batch #: 0705 L340	, 3	Sample Custodian:	Moneto
	EXPLAIN A	LL DISCREPANCIES	M '
1. Samples Hand Delivered of Shipped	Carrie	26	758 41P4 70P7 # Hibblish
2. Custody Scals on coolers or shipping containers intact, signed & dated?	pd Y≃	□ No	Ü No Scals
3. Outside of coolers or shipping containers are free from damage?	7 Yes	□ No	Comments:
4. All expected paperwork received (coe & other client specific information) scaled in plactic bag and easily accessible?	∕Q Aca	ದೆ <b>ಗಿಂ</b>	
5. Samples received dooled or ambient?	Temp	2.2 ℃	cooler # GRP 04 001
How was the temperature taken?	7 IR	🖸 Temp. Bjank	☐ Other (Specify):
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	AAR	oifD	
Custody scals on sample containers intact,     signed and dated?	d v=	C) No	□ No Sezi¢.
7. COC (Client & LvLI) signed & dated?	Ø Yes	□No	1
8. Sample containers are intact?	Yes	гы - wa	eng bothles lieb to collect
All samples on COC received?     All samples received on COC?	A Yes	D No Cl No	Jamples.
10. All sample label information matches COC?	P Yes	D No	$\sim$
<ol> <li>Samples properly preserved? (If #5 is no, then this is no.)</li> </ol>	£ Yes	andanp	les are unpresure
12. Samples received within hold times? Short holds taken to wet jab?	O Yes O Yes	□ No	MNA
13. YOA, TOC, TOX free of headspace?	□ Yes	Ø No	DNA headspace in all parmy
14. QC stickers placed on bottles designated by client?	ūΥes	□ No	DAVA CONTRACTOR
15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	ΠYe	Jee	all alove
16. Project Manager contacted concerning any discrepancies? Person Contacted	y Ye	0 No Dz±= <u>S</u> ∙	30·07